

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	("astaxanthin").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/11/07 09:44
S2	1889	astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:29
S3	34103	lipase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:29
S4	141	S2 and S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:29
S5	112	S4 and medium	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:40
S6	9687	carotenoid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:41
S7	4	S6 near S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:54

S8	73	S2 near extract	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 14:18
S9	21	"3951945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:14
S10	27	"3906112"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:22
S11	9687	carotenoid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:22
S12	2590	S11 and prepare	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:23
S13	1677	S12 and enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:23
S14	452	S12 and lipase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:23
S15	377	S14 and ester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:24

S16	377	S15 and prepare	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:38
S17	153	S16 and pigment	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 10:38
S18	21199	capric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:33
S19	34103	lipase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:33
S20	1322	S18 and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:33
S21	600	S20 and prepare	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:33
S22	580	S21 and ester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:34
S23	1889	astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:35

S24	8	S22 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:38
S25	29	octonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:38
S26	11734	octanoic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:38
S27	13	S23 and S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:40
S28	13	S27 and ester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 13:40
S29	21	"541595"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 14:19
S30	8	"5453565"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 14:19
S31	8	((MOTOO) near2 (SUMIDA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 10:50
S32	9	((MASAHIRO) near2 (NAKAO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 10:50
S33	1	((NAMINO) near2 (TOMIMORI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 10:50
S34	3	((KOSHI) near2 (NAMIKAWA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 10:51
S35	51	((HARUKAZU) near2 (FUKAMI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 10:51

S36	35951	monoester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:52
S37	63415	diester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:52
S38	21660	capric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:52
S39	22010	caprylic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:52
S40	47651	lauric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:53
S41	1970	astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:53
S42	84	S41 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:53
S43	34881	lipase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:53

S44	27	S42 and S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 10:59
S45	118	S41 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:00
S46	39	S45 and S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:11
S47	7	S41 same S36 same S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:12
S48	96	S41 same S37	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:13
S49	7	S48 same S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 11:13
S50	2	"20050014824"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 16:18
S51	6	"6916493"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/06 19:12

S52	1978	astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 09:44
S53	1116	S52 and food	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 09:44
S54	335	S52 with food	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 09:45
S55	335	S54 and py<"2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 09:51
S56	8	"6265450"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 09:57
S57	77	S52 with cosmetics	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 10:00
S58	19	"5965795"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/07 10:06
S59	2	"2007207219"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 11:01

S60	:2	"20070207219"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 11:02
S61	:0	astzxanthin with (octanoic or caprylic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 11:03
S62	:2	astaxanthin with (octanoic or caprylic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 11:04
S63	:3870	astaxanthin or xanthophyll	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:10
S64	:95	S63 with monoester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:10
S65	:67535	diester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:11
S66	:24569	capric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:11
S67	:24895	caprylic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:11

S68	3	S64 and S65 and S66 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:11
S69	39587	lipase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:12
S70	17	S64 and S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:12
S71	2	S64 and (octanoic or nonanoic or decanoic or dodecanoic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 13:16
S72	2	"20040115758"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 15:18
S73	3870	astaxanthin or xanthophyll	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 17:22
S74	80	S73 and monoester and cosmetics	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 17:22
S75	68	S74 and (fatty near2 acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/21 17:23

S76	3	"6709688"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/30 19:01
S77	2	"20050228188"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/30 19:31
S78	2	S77 and purified	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/30 19:31
S79	2	"20050228188"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/31 10:11
S80	2	S79 and purif\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/31 10:11
S81	2	"6054491".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 10:19
S82	2	"20040115758"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 11:43
S83	2	astaxathin and (caprylic or octanoic or capric or decanoic or nanoic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 17:27

S84	1997	426/250,262,268.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 17:29
S85	1	S84 and monoester and astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 17:29
S86	11	((MOTOO) near2 (SUMIDA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 10:02
S87	14	((MASAHIRO) near2 (NAKAO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 10:03
S88	4	((NAMINO) near2 (TOMIMORI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 10:03
S89	5	((KOSHI) near2 (NAMIKAWA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 10:05
S90	59	((HARUKAZU) near2 (FUKAMI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 10:05
S91	196	astaxanthin and monoester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/18 11:51
S92	51	S91 and (caprylic or octanoic or capric or decanoic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/18 11:52
S93	31778	crustacee or shrimp or crab or krill or prawn or lobster	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:05
S94	1452	S93 and (solvent near5 extract\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:06
S95	17	S94 and astaxanthin and (caprylic or octanoic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:07

S96	36	S94 and astaxanthin and lipase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:08
S97	12	S96 and monoester	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:08
S98	651	554/221,229.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:13
S99	7	S98 and astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:14
S100	387	435/67.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:16
S101	220	S100 and astaxanthin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:16
S102	4	S101 and (caprylic or octanoic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:16
S103	0	astaxanthin and "I11"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:22

S104	37	S93 same supercritical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/24 15:25
S118	111	(medium adj chain) near4 (fatty adj acid) near10 caproic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/29 18:26
S119	34	(short adj chain) near4 (fatty adj acid) near10 caproic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/29 18:32

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S105	414	554/221,229.ccls.	USPAT; UPAD	OR	ON	2010/07/24 15:18
S106	171	435/67.ccls.	USPAT; UPAD	OR	ON	2010/07/24 15:18
S107	6	((MOTO) near2 (SUMIDA)).INV.	USPAT; UPAD	OR	ON	2010/07/24 15:18
S108	7	((MASAHIRO) near2 (NAKAO)).INV.	USPAT; UPAD	OR	ON	2010/07/24 15:19
S109	0	((NAMINO) near2 (TOMIMORI)).INV.	USPAT; UPAD	OR	ON	2010/07/24 15:19
S110	1	((KOSHI) near2 (NAMIKAWA)).INV.	USPAT; UPAD	OR	ON	2010/07/24 15:19
S111	40	((HARUKAZU) near2 (FUKAMI)).INV.	USPAT; UPAD	OR	ON	2010/07/24 15:19
S112	62	astaxanthin near9 ester	USPAT; UPAD	OR	ON	2010/07/24 15:21
S113	0	astaxanthin and "I11"	USPAT; UPAD	OR	ON	2010/07/24 15:22
S114	4	astaxanthin and S105	USPAT; UPAD	OR	ON	2010/07/24 15:22
S115	91	astaxanthin and S106	USPAT; UPAD	OR	ON	2010/07/24 15:23
S116	9440	crustacee or shrimp or crab or krill or prawn or lobster	USPAT; UPAD	OR	ON	2010/07/24 15:29

S117	175	S116 and S105 or S106	USPAT; UPAD	OR	ON	2010/07/24 15:29
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